

Pre-Algebra

Name _____

1:5:2³**Solving Equations. SHOW ALL WORK** on a separate sheet of paper.

1. $\frac{x}{3} = 7$

2. $\frac{g}{2} + 9 = 11$

3. $\frac{u}{4} + 6 = 36$

4. $\frac{y}{3} - 17 = 3$

5. $2y - 7 = 1$

6. $19 = 7 + \frac{b}{7}$

7. $2j - 11 = 7$

8. $7 + 10b = 27$

9. $7v - 2 = 12$

10. $1 + 4r = 9$

11. $2g + 7 = 13$

12. $8e + 3 = 19$

Simplify each expression.

13. $5b + 6b$

14. $21m - 4m$

15. $5 + 8k + 9$

16. $17n - 4n + 6$

17. $6p + 4m + 8m + 7p$

18. $5b^2 + 6b^2$

19. $10e - 8e + 6f + 4f$

20. $7y + 12x - 4y + 16x$

21. $5u - u$

Name _____ Class _____ Date _____

Writing Equations

Change each word sentence into a mathematical equation.

Tell what each variable represents.

- 1) The total cost of tickets for the 8th grade to attend a concert is \$6 per student times the number of students.

- 2) To calculate the total amount of money in a savings account, multiply 0.05 by the amount of money in the savings account.

- 3) The total distance of a car trip divided by 50 gives the approximate number of hours the trip will take.

- 4) To estimate the circumference of a circle, multiply the diameter by 3.

- 5) The cost of going to the zoo is \$4.50 for each adult and \$2.50 for each child.
